



LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA
BULLETIN No. 233
MARMALADES.

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MARMALADES.

OTTAWA, February 13, 1912.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to hand you herewith a report upon 154 samples of marmalade, collected throughout Canada in April of last year. This report has been much delayed through the short-handedness of the staff of these laboratories; and the fact that more perishable articles had to be given priority.

Two samples were unfortunately destroyed by rats, whose ravages upon the labels were such as to make identification of the samples uncertain.

All samples, except nine, are orange marmalades.

One hundred and thirty-eight (138) samples are found to be genuine, in the sense that they consist of fruit and sugar. Fourteen (14) samples contain glucose, but in very varying amounts, as follows:—

	Samples.
Traces only	2
About 2 per cent.	1
“ 3 “	3
“ 5 “	3
“ 10 “	2
“ 25 “	3
	14

Owing to the indefinite character of commercial glucose it is impossible to state the percentage admixture with exactitude. The numbers given above are calculated from work done upon a sample of glucose syrup, known to the trade as 43°.

In sample 40615 (10 per cent) the presence of glucose is declared. Under modern methods of manufacture, glucose is a perfectly wholesome article of food. It consists mainly of dextrose (grape sugar) with varying quantities of dextrin (8 to 20 per cent. See Bulletin 96, p. 18). In ordinary processes of digestion, cane sugar (sucrose) is changed into glucose, and dextrin is produced by the action of ptyalin (the amylolytic enzyme of saliva) on starchy foods. Both glucose and dextrin are therefore nutritious foods, and are normally contained in every meal we eat, if not

as such, yet as results of digestion of sugar and starch. There can be no sufficient reason, on the ground of wholesomeness for objecting to commercial glucose as a component of jam or marmalade.

Owing, however, to the fact that jams and marmalade were known long before glucose, it is right and proper to define jam and marmalade in conformity with accepted usage, as consisting of fruit and sugar only. If, as is claimed by many manufacturers, the addition of glucose actually improves the quality of jams and marmalades, there can be no reason for withholding a statement of the fact of its presence. The improved character of the article (if this is fact) should be sufficient justification for the introduction of the new ingredient.

In the meantime, it is necessary to describe jams which contain glucose without declaration of the fact, as adulterated under the Act, in that a cheaper substance than sugar has been in part substituted for sugar. (Sec. 3*b*). This is merely technical adulteration, and does not mean that, as an article of food, the jam or marmalade is less nutritious or wholesome.

I beg to recommend the publication of this report as Bulletin No. 233.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

BULLETIN No. 233—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	COST.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).	Solids Insoluble.
				Quantity.	Cents.	Manufacturer.	Furnisher.		

DISTRICT OF NOVA SCOTIA—

1911.									p. c.
April 19	Marmalade.	42286	Wm. Law & 3 jars.	45	Crosse & Blackwell, London, Eng.	Manufacturers.			1.40
" 20	"	42287	Wentworth Stores, Ltd., Windsor, N. S.	3 "	60	Aylmer Canning Co., Aylmer, Ont.	R. B. Seeton & Co., Halifax, N.S.		2.54
" 24	"	42290	Bauld Bros., Ltd., Halifax, N.S.	3 "	45	Chivers & Sons, Histon, Eng.	Manufacturers.		1.50
" 24	"	42291	J. F. Crowe & Co., Ltd., Halifax, N. S.	3 "	38	J. Robertson & Sons, London, Eng.	"		1.00
" 24	"	42292	Wentzells, Ltd., Halifax, N.S.	3 "	45	W. P. Hartley, London, Eng.	"		1.35
" 24	"	42293	F. W. Hodgson, Halifax, N.S.	3 "	45	C. & E. Morton, London, Eng.	J. W. Goreham, Halifax, N.S.		1.57
" 25	"	42294	R. B. Seeton & Co., Halifax, N.S.	3 "	40	J. Robertson & Sons, London, Eng.	Manufacturers.		1.40
" 25	"	42295	Chisholm & Co., Halifax, N.S.	3 "	55	Jas. Keiller & Son, Dundee, Scot.	"		1.34
" 26	"	42296	A. & W. Smith & Co., Halifax, N.S.	3 "	40	J. Robertson & Son, London, Eng.	J. W. Goreham, Halifax, N.S.		1.05
" 26	"	42297	Payzant & King, Halifax, N.S.	3 "	25	T. Upton, Hamilton, Ont.	Manufacturers.	Upton's Orange Marmalade.	1.24

DISTRICT OF PRINCE EDWARD ISLAND—

April 6	Marmalade.	46021	W. W. Walker, Charlottetown.	3 jars.	60	Shirriffs, Toronto.		Shirriffs Orange Marmalade.	0.95
" 6	"	46022	J. C. Crabbe, Charlottetown.	3 "	54	Chivers & Sons, Cambridge, Eng.		Chivers pure Orange Marmalade.	3.29
" 8	"	46023	L. A. Haszard, Charlottetown.	3 "	60	W. P. Hartley, Ltd., Liverpool, Eng.		Guaranteed absolutely pure Orange Marmalade.	1.11
" 8	"	46024	M. Duffy, Charlottetown.	3 "	45	Sugars, Ltd., Montreal.		Seville Orange Marmalade.	5.42

MARVALADES.

RESULTS OF ANALYSIS.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
per cent.		Water.	Polarimeter Read- ings normal weight in 100 cc. at 20° C.			Residual cane sugar (Claret).	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical exa- mination.		
Sample.	Total.		Direct.	Invert.	Difference.							

R. J. WAUGH, INSPECTOR.

p. c.	p. c.	p. c.				p. c.	p. c.					
61.75	63.15	36.85	+ 6.9	-16.9	23.8	17.9	43.85	None.	None.	Orange tissues	42286	Genuine.
59.43	61.89	38.11	+ 27.3	-14.1	41.4	31.2	28.15	"	"	"	42287	Contains about 3 p.c. glucose, technically adulterated. An old sample.
70.85	72.35	27.63	+12.9	-24.0	33.3	25.1	45.73	"	"	"	42290	Genuine.
74.80	75.89	24.11	+28.8	-18.7	47.5	35.7	40.19	"	"	"	42291	"
68.50	69.85	30.15	+23.0	-19.8	42.8	32.2	36.30	"	"	"	42292	"
67.80	69.37	30.63	+ 8.6	-10.6	19.2	14.4	53.40	"	"	"	42293	Contains about 5 p.c. glucose, technically adulterated.
71.30	72.70	27.30	+34.3	-19.0	53.3	39.9	31.40	"	"	"	42294	Genuine.
68.65	69.99	30.01	+13.0	-21.8	34.8	26.1	42.75	"	"	"	42295	"
79.75	80.80	19.20	+30.2	-17.3	47.5	35.8	43.95	"	"	"	42296	"
74.50	75.74	24.26	+61.2	+25.6	35.6	26.8	47.70	"	"	"	42297	Contains about 25 p.c. glucose, technically adulterated. A very old sample.

THEO. MOORE, INSPECTOR.

73.96	74.91	25.09	+11.2	-20.6	31.8	23.7	50.26	None.	None.	Orange tissues	46021	Genuine.
83.76	87.06	12.94	+14.0	- 3.0	32.0	23.8	59.96	"	"	"	46022	"
73.34	74.46	25.54	+14.9	-18.7	33.6	25.0	48.34	"	"	"	46023	"
8.74	74.17	25.83	+ 8.0	-21.0	29.0	21.9	46.84	"	"	"	46024	"

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report (Is not an expression of opinion).	Solids
				Quantity.	Cents.	Manufacturer.	Furnisher.	Insoluble

DISTRICT OF PRINCE EDWARD ISLAND—

1911.								p. c.
April 10	Marmalade.	46025	C. C. Carlton, 3 jars Souris.	45	Inglis, Mont- real.	Inglis Home- made Or- ange Mar- malade.		2.88
" 11	"	46026	Sterns Bros., 3 Souris.	66	J. Stephens & Son, Glou- cester, Eng.	Guaranteed Orange Mar- malade.		
" 11	"	46027	Mathew & Mc- Lean, Souris.	54	J. W. Windsor, Montreal.	Bal moral Scotch Mar- malade.		3.49
" 25	"	46028	Sinclair & Ste- wart, Sum- merside.	36	T. Upton & Co., Hamilton, Ont.	Upton pure Orange Mar- malade.		2.38
" 25	"	46029	Brace & Mc- Kay, Sum- merside.	60	Crosse & Black- well, Lon- don, Eng.	Pure Orange Marmalade.		1.92
" 27	"	46030	John McKen- na, Char- lottetown.	60	T. J. Lipton, England.	Orange Mar- malade.		1.65

DISTRICT OF NEW BRUNSWICK—

Mar. 27	Marmalade.	45444	H. W. Cole, Ltd., St. John, N.B.	3 jars	45	Crosse & Black- well, London, Eng.	C. & B. Orange Marmalade.	1.04
" 27	"	45445	Puddington, Wetmore, Morrison, Ltd., St. John, N.B.	"	35	Sugars & Can- ners, Ltd., Montreal.	Diamond Orange Mar- malade.	2.76
" 28	"	45446	Baird & Peters, St. John, N. B.	"	38	John Stephens Son & Co., Ltd., Glou- cester, Eng.	Orange Mar- malade.	1.61
April 10	"	45447	G. T. Whelp- ley Estate, Fredericton, N. B.	"	54	W. P. Hartley, Liverpool and London.	"	1.44
" 11	"	45448	J. Rankin Brown, Wood- stock, N.B.	"	75	Jas. Keiller & Sons, Ltd., Dundee, Scot	"Dundee" Marmalade.	1.11
" 13	"	45449	D. R. Bedell, Andover, N. B.	"	75	"	"	1.59
" 13	"	45450	H. N. Dickin- son, Perth, N.B.	"	60	C. & E. Morton, Leadenhall St., London, Eng.	Morton's Orange Mar- malade.	1.92
" 19	"	45451	The Sussex Mercantile Co., Ltd., Sussex, N.B.	"	75	The T. Upton Co., Ltd., Hamilton, Ont.	Upton's Orange Mar- malade.	1.81

MARMALADES.

RESULTS OF ANALYSIS.											Remarks and Opinion of the Chief Analyst.	
percent.		Water.	Polarimeter Readings normal weight in 100 cc. at 20 C.			Residual cane sugar (Cargol).	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical exa- mination.		
Soluble.	Total.		Direct.	Invert.	Difference.							
											No. of Sample.	

THEO. MOORE, INSPECTOR—*Concluded.*

p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
63.85	66.73	33.27	+27.7	-19.0	46.7	35.2	28.65	None	None	Orange-tissues	46025 Genuine.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46026 Samples destroyed by rats.
65.90	69.39	30.61	+17.0	-10.5	27.5	20.7	15.20	"	"	"	46027 Contains about 5 p.c. glucose, technically adulterated.
69.80	72.18	27.82	+38.8	-23.6	62.4	47.0	22.80	"	"	"	46028 Genuine.
65.50	67.42	32.58	+18.7	-21.8	40.5	30.5	35.00	"	"	"	46029 "
70.35	72.00	28.00	+19.0	-22.4	41.4	31.2	39.15	"	"	"	46030 "

J. C. FERGUSON, INSPECTOR.

p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
64.20	65.24	34.76	+26.5	-20.7	47.2	35.5	28.70	None	None	Orange-tissues	45444 Genuine.
66.45	69.21	30.79	+18.2	-13.2	31.4	23.6	42.85	"	"	"	45445 Contains about 3% glucose technically adulterated.
61.80	63.41	36.59	+43.7	+7.1	36.6	27.5	"	"	"	"	45446 Contains about 10% glucose technically adulterated.
73.25	74.69	25.31	+25.0	-23.0	48.0	36.1	37.15	"	"	"	45447 Genuine.
66.50	67.61	32.39	+2.9	-20.2	23.1	17.3	49.20	"	"	"	45448 "
69.30	70.89	29.11	+24.4	-24.4	48.8	36.7	32.60	"	"	"	45449 "
51.95	53.87	46.13	+2.9	-19.0	21.9	16.5	35.45	"	"	"	45450 "
63.30	65.11	34.89	+32.8	-19.8	52.6	39.9	23.40	"	"	"	45451 "

BULLETIN No. 233—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	COST.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Solids Insoluble.
				Quantity.	Cents.	Manufacturers	Furnisher.		

DISTRICT OF NEW BRUNSWICK—

1911.									p. c.
April 20	Marmalade.	45452	D.A. McBeath, Moncton, N. B.	3 jars.	54	Chivers & Sons Ltd., Histon, Cambridg'e, Eng.		Chiver's Pure Orange Marmalade.	1.67
" 21	"	45453	S. A. Russell, Newcastle, N.B.	"	75	Cairns, Paisley, Scotland		Cairn's finest Scotch Home-made Marmalade.	1.41

DISTRICT OF QUEBEC—

Mar. 29	Marmalade.	36901	O. Lacroix, 19 Rue St. Joseph, Que.	3 jars.	24	Wm. P. Hartley, Liverpool.	J B Reneaud & Cie.		1.22
" 29	"	36902	"	"	45	Alymer, Can-ning Co.	Manuf'ers.		2.21
" 29	"	36903	"	"	30	Uptons, Hamilton.	J B Reneaud & Cie.		2.10
April 5	"	36904	Chas. E. Riv- in, 55 Rue de la Couronne, Quebec.	"	75	Chivers & Sons Histon, Cam- bridge, Eng.	Turgot et Frère.		1.68
" 3	"	36905	"	"	75	Jas. Keiller & Son, Dundee.	N. Rioux & Cie.		1.27
" 4	"	36906	Myrand and Pouliot, 70 Rue de la Couronne, Quebec.	"	36	Aylmer Can- ning Co., Hamilton.	Unknown.		1.90
" 4	"	36907	"	"	75	Chivers & Sons Histon, Cam- bridge, Eng.	J B Reneaud & Cie.		0.60
" 4	"	36908	"	"	75	E. D. Smith, Winona, Ont.	"		0.95
" 4	"	36909	"	"	75	Jas. Keiller & Son, Dundee.	N. Rivoux & Cie.		1.46
" 4	"	36910	"	"	75	Thos. Lipton, London.	Manuf'ers.		1.97

DISTRICT OF ST. HYACINTHE—

Apr. 24	Marmalade.	38912	J. O. Fagnan, Sorel.	3 jars.	60	Crosse & Black- well, London Eng.		Orange Mar- malade.	1.21
" 25	"	38913	J. S. Baillar- geon, Farn- ham.	3 "	54	St. Louis Pre- serving Co., Ltd., Ville St. Louis, Montreal.		"	3.93

MARMALADES.

RESULTS OF ANALYSIS.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
per cent.		Water.	Polarimeter Read- ings normal weight in 100 cc. at 20° C.			Residual cane sugar (Clerget).	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical exa- mination.		
Soluble.	Total.		Direct.	Invert.	Differences.							

J. C. FERGUSON, INSPECTOR—*Concluded.*

p. c.	p. c.	p. c.				p. c.	p. c.					
64.45	66.12	33.88	+18.7	-22.2	40.9	30.9	33.55	None.	None.	Orange tissues.	45452	Genuine.
67.55	68.96	31.04	+7.2	-23.9	31.1	23.2	44.35	"	"	"	45453	"

F. X. W. E. BELAND, INSPECTOR.

70.55	71.77	28.23	+24.5	-20.7	45.2	34.3	36.25	None.	None.	Orange tissues.	36901	Genuine.
67.90	70.11	29.89	+50.4	-18.7	69.1	52.0	15.90	"	"	"	36902	"
56.50	58.60	41.40	+4.6	-15.5	20.1	15.1	41.40	"	"	"	36903	"
72.10	73.78	26.22	+13.0	-23.3	36.3	27.3	44.80	"	"	"	36904	"
72.30	73.57	26.43	+11.5	-21.5	33.0	24.8	47.50	"	"	"	36905	"
58.00	59.90	40.10	+9.0	-10.6	19.6	14.8	43.2	"	"	"	36906	Contains about 3% glucose technically adulterated. An old sample.
71.05	71.65	28.35	+10.0	-21.9	31.9	24.0	47.05	"	"	"	36907	Genuine.
74.30	75.25	24.75	+28.3	-19.0	47.3	35.7	38.60	"	"	"	36908	"
69.55	71.01	28.99	+4.3	-23.6	27.9	21.0	48.55	"	"	"	36909	"
67.75	69.72	30.28	+18.7	-22.7	41.4	31.2	36.55	"	"	"	36910	"

J. C. ROULEAU—INSPECTOR.

65.55	66.76	33.24	+4.3	-22.2	26.5	19.9	46.86	None.	None.	Orange tissues.	38912	Genuine.
66.05	69.98	30.02	+30.4	-20.4	50.8	38.2	27.85	"	"	"	38913	"

BULLETIN No. 233—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).	Solids Insoluble.
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF ST. HYACINTHE—

1911.								P. C.
" 26	Marmalade.	38914	E. Rodier, St. Jean.	3 jars.	45	T. Upton Co. Ltd., Hamilton.	Orange mar-	1.92
" 26	"	38915	J. T. Rolland, Bedford.	3 "	39	"	"	1.96
" 27	"	38916	C. Vincent, Granby.	3 "	60	Shirriff, Toronto.	Imperial Scotch Marmalade.	2.15
May 2	"	38917	J. O. Montplaisir, Drummondville.	3 "	60	Cairns, Paisley		0.96
" 3	"	38919	Hoskins & O'Reagan, Sutton.	3 "	60	Wm. P. Hartley, London, Eng.		1.40
" 4	"	38920	H. F. Barlow, Magog.	3 "	45	T. Upton Co. Ltd., Hamilton, Ont.	Orange Marmalade.	2.15
" 5	"	38921	C. O. Genest & Fils, Sherbrooke.	3 "	45	Wagstaffe Ltd., Hamilton, Ont.		1.87
" 23	"	38922	S. N. Fontenault, Marieville.	3 "	69	Chivers & Sons Ltd., Eng.		2.64

DISTRICT OF MONTREAL—

Mar. 24	Marmalade.	40611	J. E. Belisle, 129 Wellington St., Montreal.	3 jars.	45	Aylmer Canning Co., Aylmer, Ont.	Scotch Marmalade.	3.28
" 25	"	40612	A. Rochon, Prince Arthur, E. Montreal.	25 3	45	Millward & Bentley, Montreal.		2.39
" 25	"	40613	J. Gariepy, 101 Prince Arthur E., Montreal.	3 "	30	Upton		1.44
" 27	"	40614	S. L. Desaulniers, 437 Notre Dame E., Montreal.	3 "	30	Sugars Ltd., Montreal.	"Oval" Brand	1.74
Apr. 10	"	40615	Murphy Bros., 531 St. Catherine St., Montreal.	3 "	30	Inglis, Montreal.		6.02
" 10	"	40615	Co-operative Grocery Co., 293 St. Antoine St., Montreal.	3 "	30	Vendors	Labelled, Widow Robins Home made Fine Compound.	3.90

MARMALADES.

RESULTS OF ANALYSIS.

per cent.	Soluble.	Total.	Water.	Polarimeter Readings normal weight in 100 cc. at 20° C.			Residual cane sugar (Clerget).	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Direct.	Invert.	Difference.							

J. C. ROULEAU, INSPECTOR—*Concluded.*

p. c.	p. c.	p. c.				p. c.	p. c.					
66.75	68.67	31.33	+28.2	-20.7	48.9	36.09	29.85	None.	None.	Orange tissues.	38914	Genuine.
64.60	66.56	33.44	+25.0	-18.2	43.2	32.4	32.20	"	"	"	38915	"
68.32	70.48	29.52	+20.8	-20.0	40.8	30.8	37.52	"	"	"	38916	"
68.85	69.81	30.19	- 6.2	-21.4	15.2	11.4	57.45	"	"	"	38917	"
72.75	74.15	25.85	+18.8	-19.4	38.2	28.5	44.25	"	"	"	38919	"
66.85	69.00	31.00	+13.8	-19.8	33.6	25.3	41.55	"	"	"	38920	"
60.95	62.82	37.16	+ 8.1	-19.8	27.9	21.0	39.95	"	"	"	38921	"
66.95	69.59	30.41	+ 4.2	-19.6	26.8	20.2	46.75	"	"	"	38922	"

J. J. COSTIGAN—INSPECTOR.

58.00	61.28	38.72	- 7.0	-15.4	8.4	6.3	51.70	None.	None.	Orange tissues.	40611	Genuine.
60.00	62.39	37.61	- 2.9	-20.7	23.6	17.7	42.30	"	"	"	40612	"
71.00	72.44	27.56	+31.6	-21.6	53.2	40.1	30.90	"	"	"	40613	"
73.60	75.34	24.66	+31.1	-21.3	52.4	39.5	35.84	"	"	"	40614	"
61.50	67.52	32.48	+22.7	-21.3	44.0	33.1	28.19	"	"	"	40615	"
59.65	63.55	36.45	+28.5	- 1.8	30.3	22.9	36.75	"	"	Orange & Grape Fruit.	40615	Orange and Grape fruit, contains about 10 p. c. glucose, declared.

BULLETIN No. 233—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cost.	Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).	Solids	
						Manufacturer.	Furnisher.		Insoluble.	

DISTRICT OF MONTREAL—										
1911.										p. c.
April 10	Strawberry Jam.	40616	Beauvais La- londe & Co., 482 St. James St, Montreal	3 jar.	60			Gazelle Brand		12.80
" 11	Marmalade..	40617	R. L. Watkins 789 St. Law- rence E. Montreal.	3 "	38	Vendor.				9.67
" 11	"	40618	E. Brais, 709 St. Lawrence B., Montreal	3 "	30	Mrs. Luke, Montreal.				2.39
" 11	"	40619	J. L. Desaul- niers, 492 St. Lawrence B. Montreal.	3 "	45	Aylmer Can- ning Co., Hamilton, Ont.		Canada First.		5.63

DISTRICT OF OTTAWA—

April 3	Marmalade.	43211	Lucas & Mc Leary, Smiths Falls.	jars.	30	The T. A. Lytle Co. Ltd., Toronto.	Robertson Nicollie, Smiths Falls.	Orange Mar- malade.		0.75
" 3	"	43212	Williams & 3 Vauluven Smiths Falls	"	36	T. Upton Co. Ltd., Hamil- ton.	Gilmour & Co., Brock- ville.	Uptons pure Orange Mar- malade.		5.23
" 4	"	43213	G. Loucester Trading Co., Rideau St., Ottawa.	3 "	75	Jas Robertson & Son, Lon- don, Eng.	H. N. Bate & Sons, Ot- tawa.	Robertsons Pineapple Marmalade.		7.93
" 4	"	43214	A. E. Rea & 3 Co., Ltd., Rideau St., Ottawa.	"	105	Wagstaffes, Hamilton.	Balfour Smyl & Co., Ha- milton.	Wagstaffes Fig Mar- malade.		6.28
" 4	"	43215	Alex. Phillips, Rochester St., Ottawa.	3 "	75	"	Manufrrers.	Ginger Mar- malade.		9.21
" 5	"	43216	J. K. White-3 law, Arnprior	"	30	S. Upton Co., Ltd., Hamil- ton.	Unknown...	Uptons pure Orange Mar- malade.		2.35
" 6	"	43217	R. McGregor, Ltd., Ottawa	3 "	53	Shirreffs, To- ronto.	Manufrrers.	Imperial Scotch Or- ange Mar- malade.		2.31
" 6	"	43218	W. B. Graham, Ottawa.	3 "	75	Chivers & Sons Ltd., Histon Cambridge, Eng.	Unknown...	Orange Mar- malade, labelled pure.		2.70
" 7	"	43219	P. C. Leslie & 3 Co., Prescott	"	15	Canadian Pre- serving Co., Hamilton.	Manufrrers.	Graham's "Lily Brand" pure Orange Marmalade.		2.27
" 7	"	43220	J. Whitley, Prescott.	3 "	60	Shirreffs, To- ronto.	"	Imperial Scotch Or- ange Mar- malade.		4.54

MARMALADES.

RESULTS OF ANALYSIS.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
per cent.		Water.	Polarimeter Readings normal weight in 100 cc. at 20° C.			Residual cane sugar (Clerget).	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.		
Soluble.	Total.		Direct.	Invert.	Difference.							

J. J. COSTIGAN, INSPECTOR—*Continued.*

p. c.	p. c.	p. c.				p. c.	p. c.						
63.10	75.96	24.04 + 21.6	- 21.6	43.2	32.5	30.60	None.	None.	Strawberry tissues.	40616	Strawberry jam — Genuine		
58.50	68.17	31.83 + 17.3	- 19.5	36.8	37.7	20.80	"	"	Orange tissues.	40617	Genuine.		
63.95	66.24	33.76 - 1.0	- 19.8	18.8	14.1	49.85	"	"	"	40618	"		
58.10	63.43	36.54 + 21.6	- 14.4	36.0	27.1	31.00	"	"	"	40619	Contains about 2 p.c. glucose technically adulterated.		

J. A. RICKEY—INSPECTOR.

67.55	68.30	31.70	+26.1	-18.7	44.8	33.9	33.65	None.	None.	Orange tissues.	43211	Genuine.
67.40	72.63	27.37	+41.7	-22.2	63.9	48.1	19.30	"	"	"	43212	"
61.75	69.68	30.32	+18.7	-20.4	39.1	29.4	32.35	"	"	"	43213	Pineapple genuine.
62.50	68.78	31.22	+33.1	-17.2	50.3	37.9	24.60	"	"	"	43214	Green figs "
62.25	75.46	24.54	+34.5	-22.2	56.7	42.7	23.35	"	"	"	43215	Ginger genuine.
61.00	63.35	36.65	27.4	-20.7	48.1	36.2	24.80	"	"	"	43216	Genuine.
69.40	71.71	28.29	1.5	-22.8	24.3	18.0	51.40	"	"	"	43217	"
62.25	64.95	35.05	1.3	-20.7	25.0	18.8	43.45	"	"	"	43218	"
63.50	65.77	31.23	27.4	19.9	47.3	35.7	27.80	"	"	"	43219	"
73.30	77.84	22.16	-3.2	-22.2	19.0	14.3	59.00	"	"	"	43220	"

BULLETIN No. 233—

Date of Collection.	Name of Sample.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).	Solids.
					Cents.		Manufacturer.	Furnisher.		
										Insoluble.

DISTRICT OF KINGSTON—

1911.									
Mar. 24	Marmalade.	47766	W.E. Hopkinson, Kingston.	3 jars.	45		Grahams, Hamilton.		p.c.
" 24	"	47768	L. Murphy, Kingston.	3 "	75		Cross & Blackwell, London Eng.		2.90
" 24	"	47769	S. T. Kirk, Kingston.	3 "	20		Upton's Hamilton.	Fenwick Hendry Co., Kingston	1.28
" 24	"	47770	P. A. Haffner, Kingston.	3 "	45		Maconochie, Bros., London.		2.38
" 24	"	47771	J. McCulla, Kingston.	3 "	100		Millar & Co., Ltd., Belfast Ireland.		1.74
" 27	"	47772	R. Elvins, Belleville.	3 "	30		Upton's Hamilton.		
" 27	"	47773	H.E. Fairfield, Belleville.	3 "	75		Maconochies, London.		1.18
" 27	"	47774	H. Crozier, Co. 3 bourg.	3 "	75		E. A. Smith, Winona.		1.60
" 28	"	47775	J. Curtis, Port Hope.	3 "	30		Upton's Hamilton.		2.54
" 24	"	47791	Geo. Gibson, Kingston.	3 "	30		"	Geo. Robertson & Son, Kingston.	1.26
									1.83

DISTRICT OF TORONTO—

April 3	Marmalade.	47262	A. Rayner, Barrie.	3 jars.	30		T. Upton Co., Ltd., Hamilton.	Upton's Pure Orange Marmalade.	2.35
" 3	"	47263	T. B. Cramp, Orillia.	3 "	60		The Canada Preserving Co., Ltd., Hamilton.	Graham's Lily Brand Pure Orange Marmalade.	0.76
" 5	"	47264	Oliver Hubert, Penetanguishene.	3 "	45		Not named.	Jno. Dorson	1.83
" 6	"	47265	W. J. Lyon, Queen st., East, Toronto.	3 "	30		Aylmer Canning and Preserving Co., Ltd., Hamilton.	Aylmer Scotch Marmalade, Absolutely Pure.	1.57
" 6	"	47266	R. Millar, Queen St., E., Toronto.	336 3 "	30		Mrs. A. E. Scott, Toronto.	Home-made Orange Marmalade, Guaranteed Absolutely Pure.	6.88

MARMALADES.

RESULTS OF ANALYSIS.

per cent.		Polarimeter Readings normal weight in 100 cc. at 20° C.				Residual cane sugar (Clerget).	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Soluble.	Total.	Water.	Direct.	Invert.	Difference.							

JAS. HOGAN—INSPECTOR.

p.c.	p.c.	p.c.				p.c.	p.c.					
65.25	68.15	31.85	+32.2	-23.6	55.8	42.0	23.25	None.	None.	Orange tissues.	47766	Genuine.
60.95	62.25	37.77	+4.3	-22.2	26.5	19.9	41.05	"	"	"	47768	"
73.90	76.28	23.72	+2.3	-24.8	22.5	16.9	37.00	"	"	"	47769	"
63.75	65.49	34.51	+28.2	-21.6	49.8	37.5	25.25	"	"	"	47770	"
								"	"	"	47771	Samples destroyed by rats.
62.25	63.43	36.57	+52.4	-19.8	72.2	54.2	8.05	"	"	"	47772	Genuine remarkably high unchanged sugar.
57.05	58.65	41.35	-3.2	-17.8	21.0	15.80	41.25	"	"	"	47773	Genuine.
65.00	67.54	32.46	+28.2	-19.8	48.0	36.1	28.90	"	"	"	47774	"
68.90	70.16	29.84	-21.3	-22.7	44.0	33.1	35.80	"	"	"	47775	"
72.25	74.08	25.92	+34.0	-21.3	65.3	41.7	30.55	"	"	"	47791	"

H. J. DAGER, INSPECTOR.

69.15	71.50	28.50	+25.9	-18.4	44.3	33.4	35.75	None.	None.	Orange tissues.	47267	Genuine.
59.25	60.01	39.99	+20.7	-22.7	43.4	32.7	26.55	"	"	"	47263	"
66.15	67.98	32.02	-13.0	-20.7	7.7	5.8	60.35	"	"	"	47264	"
61.10	62.67	37.33	+2.0	-15.8	18.4	13.9	47.20	"	"	"	47265	Containing a trace of glucose.
63.75	70.63	29.37	+11.5	-20.7	32.2	24.2	38.55	"	"	"	47266	Genuine.

BULLETIN No. 233.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	COST.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).	Solids Insoluble.
				Quantity.	Cents.	Manufacturer. Furnisher.		

DISTRICT OF TORONTO—

1911.								p. c.
April 6	Marmalade.	47267	Bruce & Sanderson, 377 Parliament St., Toronto.	3 jars.	45	The Imperial Extract Co., Toronto.	Shirriff's Imperial Scotch Marmalade.	2.67
" 6	"	47268	G. McKee, 564 College St., Toronto.	3 "	30	F. Simpson & Sons, Toronto.	F. Simpson & Sons, Home-made Orange Marmalade.	5.69
" 10	"	47269	W. M. Smye, Jr., 75 Wellington St., Hamilton.	3 "	60	Wagstaffe, Ltd., Hamilton.	Guaranteed not to contain colouring, preservatives or glucose.	4.35
" 10	"	47270	Geo. O. Elder, 3 Mary St., N. Hamilton.	3 "	45	E. D. Smith, Winona.	Orange Marmalade.	4.33
" 11	"	47271	W. H. Rykman & Co., 19 McNabb, N. Hamilton.	3 "	30	Not named.		2.65

DISTRICT OF LONDON—

April 26	Marmalade	48005	Stuebeling & Son, Berlin.	3 jars.	60	Robertson's Jars, Paisley.	Robertson's Scotch Marmalade.	1.26
" 26	"	48007	Randa & Roos, Berlin.	3 "	50	Jas. Keiller & Sons, Dundee.		1.56
" 26	"	48017	Betzner & Co., Berlin.	3 "	30	T. Upton Co., Hamilton.	Upton's Pure Orange Marmalade.	1.87
" 26	"	48019	W. Yeats, Galt.	3 "	60	Macnochie Bros., London, Eng.	Macnochie Bros. Seville Orange Marmalade.	1.66
" 27	"	48027	Holland & Macauley, Galt.	3 "	54	Canada Preserving Co., Hamilton.	Graham's Lily Brand Pure Orange Marmalade.	1.32
" 25	"	48385	A. J. Groom, Guelph.	3 "	60	Wagstaffe, Hamilton.		2.33
" 25	"	48389	J. A. McCrea & Son, Guelph.	3 "	30	Canada Preserving Co., Hamilton.		1.19
" 25	"	48390	J. M. Dooley, Guelph.	3 "	30	T. Upton Co., Hamilton.		1.49
" 25	"	48392	Guelph Co-operative Association, Guelph.	3 "	30	"	Upton's Pure Orange Marmalade.	1.85

MARMALADES.

RESULTS OF ANALYSIS.

per cent.			Polarimeter Readings normal weight in 100 cc. at 20° C.		Difference.	Residual cane sugar (Claret).	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Soluble.	Total.	Water.	Direct.	Invert.								

H. J. DAGER, INSPECTOR *Concluded.*

p. c.	p. c.	p. c.				p. c.	p. c.					
68.80	71.47	28.53	+18.1	-21.3	39.4	27.9	40.90	None.	None.	Orange tissues.	47267	Genuine.
65.40	71.00	28.91	+16.7	-19.0	35.7	26.4	39.00	"	"	"	47268	"
64.50	68.88	31.12	+27.9	-22.2	50.1	38.5	26.00	"	"	"	47269	"
65.60	69.93	30.07	+8.6	-22.2	30.8	23.2	42.40	"	"	"	47270	"
60.40	63.05	36.95	+15.3	-21.6	36.7	28.5	31.90	"	"	"	47271	"

JNO. TALBOT, ACTING INSPECTOR.

66.75	68.01	31.99	+33.1	-21.3	54.4	41.0	25.75	None.	None.	Orange tissues.	48005	Genuine.
68.45	70.01	29.99	-8.4	-23.0	14.6	11.0	57.45	"	"	"	48007	"
61.70	63.57	36.43	+28.5	-19.0	47.5	35.8	25.90	"	"	"	48017	"
71.95	73.61	26.39	+2.9	-23.0	25.9	19.5	52.45	"	"	"	48019	"
66.70	68.02	31.98	+31.1	-23.9	55.0	41.4	25.30	"	"	"	48027	"
78.90	81.23	18.77	+31.7	-23.5	55.2	41.6	37.30	"	"	"	48385	"
77.60	78.79	21.21	+32.4	-21.6	54.0	40.8	36.8	"	"	"	48389	"
67.35	68.84	31.16	+41.8	-20.7	62.5	47.1	20.25	"	"	"	48390	"
61.80	64.65	35.35	+38.9	-19.0	57.9	43.6	18.20	"	"	"	48392	"

BULLETIN No. 233-

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	COST.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).	Solids.	
				Quantity	Cents.	Manufacturer.	Furnisher.		Insoluble.	
DISTRICT OF LONDON										
1911.										P. C.
April 25	Marmalade.	48394	J. A. S. G. O. W., 3 jars, Guelph.	60		Wagstaffe, Hamilton.		Fine Old English Jelly Shred Marmalade.	1.45	
DISTRICT OF WINDSOR										
April 18	Marmalade.	48343	A. M. Smith & 3 jars, Co., London, Ont.	40		Wagstaffe, Hamilton.			2.81	
" 18	"	48346	M. Masurel & 3 " Co., London, Ont.	25		T. Upton Co., Hamilton.		Upton's pure Orange Marmalade.	1.82	
" 18	"	48347	Ed. Adams & 3 " Co., London, Ont.	25		Aylmer Canning Co., Hamilton.		Aylmer Scotch Marmalade also lately pure.	2.45	
" 18	"	48348	W. T. Mull-3 ens, London, West Ont.	30		T. Upton Co., Hamilton.		Upton's pure Orange Marmalade.	1.78	
" 18	"	48350	R. H. Wade, 3 " London, W. Ont.	30		T. Upton Co., Hamilton.			2.09	
" 18	"	48352	R. W. James, 3 " London, W. Ont.	45		Crosse & Blackwell, London, Eng.		Pure Orange Marmalade.	1.63	
" 19	"	48354	Wm. Cross, 3 " Strathroy.	40		Wagstaffe, Hamilton.			2.62	
" 19	"	48356	J. E. Pedlow, 3 " Strathroy.	30		Aylmer Canning Co., Hamilton.			1.80	
" 19	"	48364	Pon Marché, 3 " Brantford.	60		Jas. Robertson & Sons, Paisley Scot.			2.35	
DISTRICT OF MANITOBA-										
April 19	Marmalade.	43553	W. J. Young, 3 jars, Brandon.	75		John Buchanan & Bros., Ltd., Glasgow.		Buchanan's Home made Marmalade.	1.12	
" 19	"	43554	W. J. Young, 3 " Brandon.	75		Shirreffs, Toronto.		Imperial Scotch.	1.66	
" 19	"	43555	Smith & Burton, Brandon	75		Crosse & Blackwell, London, Eng.		Orange Marmalade.	1.26	
" 19	"	43556	The Codville 3 Co., Ltd., Brandon.	45		E. D. Smith, Winona, Ont.		Orange Marmalade.	1.94	

MARMALADES.

RESULTS OF ANALYSIS.

Soluble.	Total.	Water.	Polarimeter Readings normal weight in 100 cc. at 20° C.			Residual cane sugar (Clerget).	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Direct.	Invert.	Difference.							

JNO. TALBOT, ACTING INSPECTOR - *Continued.*

p. c.	p. c.	p. c.				p. c.	p. c.					
71.00	76.05	23.95	+20.5	-21.8	51.3	38.7	35.90	None	None	Orange tissues.	48394	Genuine.

JNO. TALBOT, INSPECTOR.

70.75	73.56	26.44	+20.2	-21.6	41.8	31.2	39.55	None	None	Orange tissues.	48343	Genuine.
70.05	71.87	28.13	+31.7	-21.3	53.0	39.9	30.15	"	"	"	48346	"
67.15	69.60	30.40	+23.0	-15.8	38.8	20.2	37.95	"	"	"	48347	Contains a trace of glucose.
64.75	66.53	33.47	+25.9	-22.0	47.9	36.1	28.65	"	"	"	48348	Genuine.
70.96	73.04	26.96	+34.0	-23.8	57.8	43.5	27.45	"	"	"	48350	"
75.75	77.38	22.62	+1.4	-21.6	23.0	17.3	58.45	"	"	"	48352	"
72.95	75.56	24.43	+30.4	-23.0	53.4	40.2	32.75	"	"	Pine apple tissues.	48354	Pine apple, genuine.
68.15	70.04	29.96	+36.8	-18.1	54.9	41.3	26.85	"	"	Orange tissue.	48356	Genuine.
70.70	73.05	26.95	+27.4	-21.6	49.0	36.9	33.80	"	"	"	48354	"

A. C. LARIVIERE, INSPECTOR.

67.75	68.87	31.13	+13.0	-22.7	35.7	26.9	40.85	None	None	Orange tissues.	48553	Genuine.
70.80	72.46	27.54	+18.4	-21.8	40.2	30.3	40.50	"	"	"	48554	"
67.25	68.51	31.49	+37.4	-21.0	58.4	44.0	28.20	"	"	"	48555	"
72.20	74.14	25.86	+23.0	-23.8	46.8	35.20	37.20	"	"	"	48556	"

BULLETIN No 233—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).	Solids Insoluble.
				Quantity.	Cost.		
					Manufacturer.	Furnisher.	

DISTRICT OF MANITOBA

1911.							p. c.
April 19	Marmalade	43557	The Codville 3 jars.	46	Jas. Robertson & Sons, Manchester.	Robertson's Scotch Marmalade	1.40
" 20	"	43558	Foley Bros., 3 " "	44	Wm. P. Hartley, London.	Jelley Marmalade.	1.45
" 20	"	43559	Foley Bros., 3 " "	43	E. D. Smith, Winona, Ont.	Orange Marmalade.	2.00
" 20	"	43560	The Jobin 3 " "	60	Chivers & Sons, Ltd., Histon, Eng.	Imperial Home made Marmalade.	1.45
" 20	"	43561	The Jobin 3 " "	60	W. J. Brigger, Hamilton.	Pure Orange Marmalade.	1.70
" 21	"	43562	H. Slator, 145 3 " "	75	L. Noel & Sons, Southwark, London.	Ginger Marmalade.	2.76

DISTRICT OF CALGARY

May 3	Marmalade	43812	J. H. Morris & Co., Edmon- 3 jars.	75	A. Cairns & Sons, Paisley Scot.		1.90
" 3	"	43813	Hallier & Ald- 3 " "	75	Chivers & Sons, Ltd., Histon Cambridge, Eng.		1.80
" 3	"	43814	Acme Co. Ltd. 3 " "	75	Wagstaffe, Ltd. Hamilton.		1.95
" 3	"	43815	Hudson Bay 3 " "	75	Cross & Blackwell, London, Eng.		1.72
" 3	"	43816	The Capitol 3 " "	75	"		1.75
" 9	"	43817	L. T. Mewburn 3 " "	75	Wagstaffe, Ltd. Hamilton.		2.05
" 10	"	43818	Georgeson & Co. Limited, 3 " "	75	E. D. Smith, Winona, O.		0.75
" 10	"	43819	Campbell, Wil- 3 " "	75	Jas. Robertson & Sons, Paisley, Scot.		1.10
" 10	"	43820	G. F. & J. Galt, 3 " "	75	"		1.50
" 10	"	43821	Hudsons Bay 3 " "	60	T. Upton Co., Ltd., Hamilton.		2.75

MARMALADES.

RESULTS OF ANALYSIS.

Soluble	Polarimeter Readings normal weight in 100 cc. at 20° C.					Residual cane sugar (Claret).	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total.	Water.	Direct.	Invert.	Difference.							

A. C. LARIVIERE, INSPECTOR *Continued.*

p. c.	p. c.	p. c.				p. c.	p. c.					
60.00	70.40	29.00	+13.0	-24.2	37.2	28.00	41.00	None.	None.	Orange tissues.	43557	Genuine.
74.50	75.95	24.05	+13.8	-24.2	38.0	28.6	45.90	"	"	"	43558	"
81.75	84.74	15.26	+31.1	-29.8	53.9	40.6	41.15	"	"	"	43559	"
75.25	76.70	23.30	+7.2	-22.2	29.4	22.1	54.15	"	"	"	43560	"
66.10	67.89	32.11	+10.1	-20.7	30.8	23.2	42.90	"	"	"	43561	"
74.55	77.31	22.69	+62.4	-17.2	45.2	34.0	40.55	"	"	Ginger tissues.	43562	Ginger. Contains about 25 p.c. glu cose. Technically adulterated.

R. W. FLETCHER - INSPECTOR.

62.85	64.84	35.16	-1.5	-17.8	16.3	12.2	50.65	None.	None.	Orange tissues.	42812	Genuine.
66.25	69.05	30.95	+13.5	-22.2	35.7	26.9	40.35	"	"	"	43813	"
67.70	69.65	30.35	+27.0	-23.8	50.8	38.2	29.50	"	"	"	43814	"
66.15	67.87	32.13	+28.5	-20.7	49.2	37.0	30.87	"	"	"	43815	"
62.25	64.00	30.00	+9.5	-22.2	31.7	24.1	38.15	"	"	"	43816	"
68.50	70.55	29.45	+21.6	-20.0	41.6	31.4	57.10	"	"	"	43817	"
78.70	79.45	20.55	+1.4	-26.5	27.9	21.0	57.70	"	"	"	43818	"
69.95	71.05	28.95	+43.2	-20.5	63.7	48.0	21.95	"	"	"	43819	"
71.25	72.84	27.16	+30.2	-23.6	53.8	40.5	30.75	"	"	"	43820	"
69.25	72.00	28.00	+30.2	-23.8	54.0	40.7	31.30	"	"	"	43821	"

BULLETIN No. 233—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Solids Insoluble.
				Quantity.	Cents.	Manufacturer.	Furnisher.		

DISTRICT OF NELSON—

1911.									P. C.
May	3	Marmalade	48401 Kootenay Jam & Co., Nelson, B.C.	3 jars.	25	Vendors			2.42
"	3	"	48402 " "	3 "	25	"			1.73
"	3	"	48407 A. McDonald Co., Nelson, B.C.	3 "	53	Jas Keiller & Sons, Dundee, Scotland			1.82
"	3	"	48408 " "	3 "	49	T. Upton Co., Hamilton, O.			2.16
"	3	"	48409 " "	3 "	52	Crosse & Blackwell, Eng.			1.81

DISTRICT OF VANCOUVER—

April 22	Marmalade.	38145	London Grocery, 210 Granville St., Fairview, Van., B.C.	3 jars.	75	J. Stephens & Sons, Gloucester, Eng.	Finest quality	1.57
"	21	"	38146 A. & C. Grocery, 637 Granville St., Van.	3 "	75	Noel & Sons, London, Eng.	Guaranteed Pure.	0.88
"	21	"	38147 London Grocery, 632 Granville St., Van.	3 "	75	W.P. Hartley, London, Eng.	Guaranteed Absolutely Pure.	1.54
"	21	"	38148 Hudson Bay Co., Granville St., Van.	3 "	30	E. D. Smith, Winona, Ont.		1.10
"	24	"	38149 E. F. McDowell, 701 Granville St., Van.	3 "	90	F. Cooper, Oxford, Eng.	Warranted Pure.	6.27
"	24	"	38150 J. McTaggart & Co., 798 Granville St., Van.	3 "	60	Crosse & Blackwell, London, Eng.		1.66
"	24	"	38151 Glasgow Grocery, 716 Robson St., Van.	3 "	45	Chivers & Sons, Cambridge, Eng.		1.41
"	24	"	38152 Turners Grocery, 890 Pendel St., Van.	3 "	60	J. Keiller & Sons.		1.77

MARMALADES.

RESULTS OF ANALYSIS.												Remarks and Opinion of the Chief Analyst.
per cent.			Polarimeter Read- ings normal weight in 100 cc at 20° C.			Residual cane sugar (Clerget).	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical ex- amination.	No. of Sample.	
Soluble.	Total.	Water.	Direct.	Invert.	Difference.							

THOS. PARKER—INSPECTOR.

p. c.	p. c.	p. c.				p. c.	p. c.					
71.00	73.42	26.58	+45.2	-10.0	55.2	41.6	25.40	None.	None.	Orange tissues.	48401	Contains about 5% glucose technically adulterated.
74.00	75.73	24.27	+73.2	+15.8	57.4	43.2	30.80	"	"	Lemon tissues.	48402	Contains about 25% glucose technically adulterated.
61.39	63.12	36.88	+4.3	-22.2	26.5	19.9	41.40	"	"	Orange tissues.	48407	Genuine.
67.25	69.41	30.59	+20.2	-19.9	40.1	30.2	37.05	"	"	"	48408	"
68.25	70.06	29.94	+23.2	-21.2	44.4	33.4	34.85	"	"	"	48409	"

J. F. POWER, INSPECTOR.

66.10	67.67	32.33	+43.7	-21.6	65.3	48.7	17.40	None.	None.	Orange tissues.	38145	Genuine.
70.12	71.00	29.00	+0.4	-21.0	21.4	16.1	54.02	"	"	"	38146	"
72.18	73.72	26.28	+17.6	19.3	36.9	27.5	44.68	"	"	"	38147	"
70.15	71.25	28.75	+25.0	23.4	48.4	36.5	33.65	"	"	"	38148	"
57.78	64.05	35.95	+18.2	20.9	39.1	29.1	38.68	"	"	"	38149	"
70.75	72.41	27.59	+21.0	-22.7	43.7	32.1	28.65	"	"	"	38150	"
69.14	70.55	29.45	+11.7	-21.3	33.0	24.6	44.54	"	"	"	38151	"
72.25	74.02	25.98	+12.2	-22.7	34.9	26.3	45.95	"	"	"	38152	"

Date of Collection.	Nature of Sample.	No of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).	Solids	
				Quantity.	Cents.	Manufacturer.	Furnisher.		Insoluble.	

DISTRICT OF VENCOUVER—

1911.										P. C.
April 24	Marmalade.	38153	J. R. G. Isling 942 Pender St., Van.	3 jars.	45	J. Robertson & Sons, Pais- ley, Scot.				2.64
" 24	"	38154	H. A. Edgett & Co., 133 Hastings St., Van.	3 "	75	" "				4.49

DISTRICT OF VICTORIA—

May 5	Marmalade.	47555	Windsor Gro- cery Co., Victoria, B.C.	2 jars.	50	E. D. Smith, Windsor, Ont.		E. D. Smith's Orange Mar- malade.		1.54
" 5	"	47556	"	3 "	75	W. P. Hartley, London, Eng.		Wm. P. Hart- ley's Jelly Marmalade.		3.49
" 5	"	47557	D. H. Ross & Co., Vic- toria, B.C.	3 "	75	L. Noel & Sons, London, Eng.		Afternoon Tea Marmalade.		2.17
" 5	"	47558	"	3 "	75	Jas. Keiller & Sons, Ltd., Dundee, Scot.		Dundee Mar- malade.		3.47
" 5	"	47559	West End Gro- cery Co., Ltd., Vic- toria, B.C.	3 "	45	Crosse & Black- well, Lon- don, Eng.		C. & B. Orange Marmalade.		4.54
" 5	"	47560	"	3 "	75	The T. Upton Co., Ltd., Hamilton.		Upton's Pure Orange Mar- malade.		4.83
" 11	"	47561	Harrison & MacDonald, Victoria, B.C.	2 "	30	Chivers & Sons, Histon, Cam- bridge, Eng.		Chiver's Pure Orange Mar- malade.		2.56
" 11	"	47562	"	3 "	75	Jas. Robertson & Sons, Pais- ley, Scot.		Robertson's Golden Shr- ed Marma- lade.		0.74
" 12	"	47563	Copas Young, Vic- toria, B.C.	3 "	75	Crosse & Black- well, Lon- don, Eng.		Crosse & Black- well's Lemon Marmalade.		3.37
" 12	"	47564	H. O. Kirk- ham, Vic- toria, B.C.	3 "	75	E. D. Smith, Windsor, Ont.		E. D. Smith's Grape Mar- malade.		6.61

MARMALADES.

RESULTS OF ANALYSIS.											No of Sample.	Remarks and Opinion of the Chief Analyst.
per cent.		Water.	Polarimeter Readings normal weight in 100 cc. at 20° C.			Residual cane sugar (Clerget).	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.		
Soluble.	Total.		Direct.	Invert.	Difference.							

J. F. POWER, INSPECTOR—*Concluded.*

p. c.	p. c.	p. c.				p. c.	p. c.					
68.74	71.38	28.62	+21.8	-23.7	45.5	33.9	31.84	None.	None.	Orange tissues.	38153	Genuine.
65.50	69.99	30.91	+19.6	-19.6	39.2	29.5	36.00	"	"	"	38154	"

D. O'SULLIVAN, INSPECTOR.

74.70	76.24	23.78	+28.0	-23.8	51.8	39.0	35.70	None.	None.	Orange tissues.	47555	Geniune.
68.25	71.74	28.26	+15.8	-21.6	37.4	28.1	40.15	"	"	"	47556	"
63.75	65.92	34.08	- 5.8	-20.7	14.9	11.2	52.55	"	"	"	47557	"
67.50	70.97	29.03	+ 1.4	-20.7	22.1	16.6	50.90	"	"	"	47558	"
64.25	69.79	30.21	+1.4	-20.7	22.1	16.6	47.65	"	"	"	47559	"
63.25	68.08	31.92	+15.8	-22.0	37.8	29.2	34.05	"	"	"	47560	"
61.75	64.31	35.69	- 1.4	-19.6	18.2	13.7	51.05	"	"	"	47561	"
66.75	67.49	32.51	+14.0	-21.6	35.6	26.8	39.95	"	"	"	47562	"
64.55	67.92	32.08	+10.0	-19.3	9.3	7.0	57.55	"	"	"	47563	Lemon Genuine.
56.40	63.01	36.99	-17.3	-21.6	6.3	4.7	51.70	"	"	Grape tissues.	47564	Grape "